

COVERAGE NAME: FTA_BUS

COVERAGE AREA: Statewide

COVERAGE DESCRIPTION:

The FTA_BUS GIS is a line data layer of fixed-route bus systems in California. The data layer links to a Level of Service (LOS) table for the routes in most of the bus systems.

USER NOTES:

Bridgewater State College developed the original 109 bus systems that now comprise the statewide FTA_BUS data layer. The GIS bus system data originated from the Federal Transit Authority (FTA) GIS bus system database. The line work was derived from the Bureau of the Census 1992 Enhanced TIGER files. Level of service (LOS) information provided by the transit agencies include days/hours of service, frequency of service and the streets where the service is located along each route.

Note: See the Data Quality Assessment section at the end of this document for more user information.

VITAL STATISTICS:

Datum:	NAD 83
Projection:	Albers
Units:	Meters
1st Std. Parallel:	34 degrees N
2nd Std. Parallel:	40.5 degrees N
Longitude of Origin:	-120 degrees W
Latitude of Origin:	0 degrees N
False Easting:	0
False Northing:	-4,000,000
Source:	Federal Transit Authority (FTA) GIS database
Source Media:	GIS shape files, DBASE database files.
Source Projection:	Decimal Degrees
Source Units:	Miles
Source Scale:	N/A
Capture Method:	N/A.
Conversion Software:	ArcView 3.2 and Arc/Info 8.0.2
Data Structure:	Vector
ARC/INFO Coverage Type:	Line
ARC/INFO Precision:	Single
Frequency of Updates:	As available
Date of Last Update:	1995 – shapefiles, 1997 – LOS tables 2001 – coverages appended to statewide data layer.
Update Media:	N/A
Update Method:	N/A
Update Software:	N/A

DATA DICTIONARY:

File name: FTA_BUS.PAT

Record length: 76

NOTE: Items common to all line coverages: FNODE#, TNODE#, LPOLY#, RPOLY#, LENGTH, <coverage>#, and <coverage>-ID are not described here.

COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC
29	ROUTE_ID	8	8	F	-
37	ROUT_NAM	10	10	C	-
47	ACRONYM	10	10	C	-
57	DATA_ID	20	20	C	-

ITEM DESCRIPTIONS:

ROUTE_ID: Bus route identification number.

ROUT_NAM: Bus route name.

ACRONYM: Acronym of Bus system name.

DATA_ID: Data identification number for linking to LOS table.

DATA DICTIONARY:

File name: FTA_LOS

Record length: 679

COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC
1	RECNUM	3	3	N	-
4	ROUTENUM	45	45	C	-
49	NAME	45	45	C	-
94	STATE	3	3	C	-
97	ACRONYM	8	8	C	-
105	DAYSRV	10	10	C	-
115	DLYHRST	10	10	C	-
125	DLYHREND	10	10	C	-
135	AMPKST	10	10	C	-
145	AMPKEND	10	10	C	-
155	AM_HDWY	8	8	C	-
163	MDPKST	10	10	C	-
173	MDPKEND	10	10	C	-
183	MD_HDWY	8	8	C	-
191	PMPKST	10	10	C	-
201	PMPKEND	10	10	C	-
211	PM_HDWY	8	8	C	-
219	EVSERVST	10	10	C	-
229	EVSERVED	10	10	C	-
239	EVE_HDWY	8	8	C	-

DATA DICTIONARY (continued):

247	SATSRVST	10	10	C	-
257	SATSRVED	10	10	C	-
267	SAT_HDWY	8	8	C	-
275	SUNSRVST	10	10	C	-
285	SUNSRVED	10	10	C	-
295	SUN_HDWY	8	8	C	-
303	ACCESSIBIL	12	12	C	-
315	EFFCDATE	10	10	C	-
325	NOTES	170	170	C	-
495	FARES	110	110	C	-
605	ENTRY_BY	45	45	C	-
650	DATADATE	10	10	C	-
660	DATA_ID	20	20	C	-

ITEM DESCRIPTIONS:

DAYSRVST:	Day of Service where Monday =1, Sat = 6, Sun = 7, X = except
DLYHRST:	Daily Hour of Start Time for weekday service.
DLYHREND:	Daily Hour of End time for weekday service
AMPKST:	AM Peak Start Time -- "peaks" determined by analyst calculating scheduled time between busses for entire day.
AMPKEND:	AM Peak End Time --
AM_HDWY:	AM Peak Headway - Average (mean) frequency between bus arrivals during AM Peak period.
MDPKST:	Mid Day Peak Start Time
MDPKEND:	Mid-day End time
MD_HDWY:	Mid-day Headway -- Average frequency between bus arrivals during mid-day (FTA Livable Communities performance measure)
PMPKST:	PM Peak Start Time
PMPKEND:	PM Peak End Time
PM_HDWY:	PM Headway averages frequency between buses
EVESRVST:	Evening Service Start Time
EVESRVED:	Evening Service End Time
EVE_HDWY:	Evening Headway -- Average frequency between buses
SATSRVST:	Saturday Service Start time
SATSRVED:	Saturday Service End time
SAT_HDWY:	Saturday Headway Average frequency between buses
SUNSRVST:	Sunday Service Start Time
SUNSRVED:	Sunday Service End Time
SUN_HDWY:	Sunday Service Headway -- frequency between buses
ACCESSIBIL:	All buses dedicated to the route are accessible to Wheelchairs Y = Yes; N = No; P = Partial
EFFCDATE:	Effective date of the schedule
DATADATE:	Date of data entry.
DATA_ID:	Data identification number for linking to LOS table.

DATABASE RELATION:

The FTA_BUS data layer can be related to the FTA_LOS table by the DATA_ID field.

DATA QUALITY ASSESSMENT:

The original shapefile line work dates from 1994-1996. The LOS table data dates from 1996-1998. Since they were developed at separate times, there is some loss of correlation between the data layer and the LOS table. The original 109 California bus systems were merged into a statewide layer for coverage and shapefile formats. There's noticeable overlap of line work where bus systems share the same roadways. Take precautions when using the coverage format data layer; for example, use of the ArcInfo CLEAN command on the data layer can produce highly altered topology. The linework may not correlate completely with other GIS road linework, e.g. the Functionally Classified Road System ("FUNC") layer, as they were developed from separate resources.

Reference Web Site: <http://geolab.bridgew.edu/docs/busroutes/>